





PubMed Nucled	
Search PubMed	for chorismate mutase AND DNA Go Clear
*	✓ Limits Preview/Index History Clipboard Details
	Field: Title/Abstract, Limits: Publication Date to 1999/04/27
	Display Summary v Sort v Save Text Clip Add Order
Entrez PubMed	Show: 20 T Items 1-13 of 13 One page.
PubMed Services	1: Gu W, Williams DS, Aldrich HC, Xie G, Gabriel DW, Jensen Related Articles, Links RA. The aroQ and pheA domains of the bifunctional P-protein from Xanthomonas campestris in a context of genomic comparison. Microb Comp Genomics. 1997;2(2):141-58. PMID: 9689222 [PubMed - indexed for MEDLINE]
	Reversion of the tyrosine ochre strain Escherichia coli WU3610 under starvation conditions depends on a new gene tas. Genetics. 1998 Apr;148(4):1627-35. PMID: 9560382 [PubMed - indexed for MEDLINE]
Related Resources	Sequencing analysis of a 24.7 kb fragment of yeast chromosome XIV identifies six known genes, a new member of the hexose transporter family and ten new open reading frames. Yeast. 1995 Sep 15;11(11):1077-85. PMID: 7502583 [PubMed - indexed for MEDLINE]
	14: Bolotin A, Khazak V, Stoynova N, Ratmanova K, Yomantas Y, Related Articles, Links Kozlov Y. Identical amino acid sequence of the aroA(G) gene products of Bacillus subtilis 168 and B. subtilis Marburg strain. Microbiology. 1995 Sep;141 (Pt 9):2219-22. PMID: 7496534 [PubMed - indexed for MEDLINE]
	The pheA/tyrA/aroF region from Erwinia herbicola: an emerging comparative basis for analysis of gene organization and regulation in enteric bacteria. J Mol Evol. 1993 Feb;36(2):107-20. PMID: 8094464 [PubMed - indexed for MEDLINE]
	Novel mutations in the pheA gene of Escherichia coli K-12 which result in highly feedback inhibition-resistant variants of chorismate

mutase/prephenate dehydratase.

Appl Environ Microbiol. 1992 Aug;58(8):2592-8. PMID: 1514806 [PubMed - indexed for MEDLINE]

7: Gavini N, Davidson BE.

Related Articles, Links

Regulation of pheA expression by the pheR product in Escherichia coli is mediated through attenuation of transcription.

J Biol Chem. 1991 Apr 25;266(12):7750-3.

PMID: 2019599 [PubMed - indexed for MEDLINE]

8: Gavini N, Davidson BE.

Related Articles, Links

The pheR gene of Escherichia coli encodes tRNA(Phe), not a repressor

J Biol Chem. 1990 Dec 15;265(35):21527-31.

PMID: 2174877 [PubMed - indexed for MEDLINE]

9: Gray JV, Golinelli-Pimpaneau B, Knowles-JR.

Related Articles, Links

Monofunctional chorismate mutase from Bacillus subtilis: purification of the protein, molecular cloning of the gene, and overexpression of the gene QP501, B52 product in Escherichia coli.

Biochemistry. 1990 Jan 16;29(2):376-83.

PMID: 2105742 [PubMed - indexed for MEDLINE] >

Related Articles, Links 10: Schmidheini T, Sperisen P, Paravicini G, Hutter R, Braus G.

A single point mutation results in a constitutively activated and feedback-resistant chorismate mutase of Saccharomyces cerevisiae.

J Bacteriol. 1989 Mar;171(3):1245-53.

PMID: 2646272 [PubMed - indexed for MEDLINE]

11: Hudson GS, Davidson BE.

Related Articles, Links

Nucleotide sequence and transcription of the phenylalanine and tyrosine operons of Escherichia coli K12.

J Mol Biol. 1984 Dec 25;180(4):1023-51.

QH301, J73

PMID: 6396419 [PubMed - indexed for MEDLINE]

12: Waldner-Sander S, Keller B, Keller E, Lingens F.

Related Articles, Links

[Biosynthesis of phenylalanine and tyrosine in Flavobacteria] Hoppe Seylers Z Physiol Chem. 1983 Oct;364(10):1467-73. German.

PMID: 6642432 [PubMed - indexed for MEDLINE]

13: Rood JI, Perrot B, Heyde E, Morrison JF.

Related Articles, Links

Characterization of monofunctional chorismate mutase/prephenate dehydrogenase enzymes obtained via mutagenesis of recombinant plasmids in vitro.

Eur J Biochem. 1982 Jun; 124(3):513-9.

PMID: 6809460 [PubMed - indexed for MEDLINE]

Display Summary V Sort V	ave Text Clip Add Order
Show: 20 Items 1=13 of 13	One page.







PubMed Nucleo	tide Protein	Genome	Structure	PopSet	Taxonomy	OMIM Bo		
Search PubMed	for chorisma	te mutase			Go	Clear		
	⊿ Limits	Preview/In	dex Hi	story	Clipboard	Details		
*						**** ***** * * * * * * * * * * * * * * *		
Field: Title, Limits: Publication Date to 1999/04/27								
	Display Summ	nary 🔻	Sort v	Save Text	Clip Add	Order		
Entrez PubMed	Show: 20	Items 1-20 of	123 Pag	ge 1 of 7	Select page: i	234567		
	1: Sprossler B.	, Lingens F.			Related	Articles, Links		
PubMed Services	based on s FEBS Lett.	hromatograph specific intera 1970 Feb 16;6(3 17382 [PubMed	ction with the):232-234. No	e activator. abstract availal	se from Clavio	ceps paspali		
	2: Lambert KN	J, Allen KD, Sus	ssex IM.		Related	Articles, Links		
	Cloning a mutase from Mol Plant M	nd characteriz	zation of an e parasitic nema 1999 Apr;12(4	atode Meloio):328-36.	land-specific o logyne javanio			
	3: Mattei P, K	ast P, Hilvert D.			Related	Articles, Links		
Related Resources	Bacillus subtilis chorismate mutase is partially diffusion-controlled. Eur J Biochem. 1999 Apr;261(1):25-32. PMID: 10103029 [PubMed - indexed for MEDLINE]							
	4: Ma J, Zhen	g X, Schnappaul	f G, Braus G, K	arplus M, Lips	comb Related	I Articles, Links		
	WN. Yeast chorismate mutase in the R state: simulations of the active site. Proc Natl Acad Sci U S A. 1998 Dec 8;95(25):14640-5. PMID: 9843942 [PubMed - indexed for MEDLINE]							
	5: Christendat	D. Saridakis VO	C. Turnbull JL.		Related	l Articles, Links		
	Use of sit reaction of Escherich Biochemist	e-directed mu atalyzed by cl	tagenesis to horismate mu 3;37(45):15703-	itase-prephe	dues specific f nate dehydrog	for each enase from		
	6: MacBeath	G, Kast P, Hilve	rt D.		Related	d Articles, Links		
	A small, archaeon		and monoful sus jannaschii 37(28):10062-7	î. '3.	rismate mutaso	e from the		

7: Schnappauf G, Krappmann S, Braus GH.	Related Articles, Links			
Tyrosine and tryptophan act through the same binding interface of yeast chorismate mutase.	she at the diffier			
J Biol Chem. 1998 Jul 3;273(27):17012-7.				
PMID: 9642265 [PubMed - indexed for MEDLINE]				
18: Lee AY, Zhang S, Kongsaeree P, Clardy J, Ganem B, Erickson JW, Xie D.	Related Articles, Links			
Thermodynamics of a transition state analogue inhibitescherichia coli chorismate mutase: probing the chargesidue and its role in inhibitor binding and catalysis. Biochemistry. 1998 Jun 23;37(25):9052-7. PMID: 9636050 [PubMed - indexed for MEDLINE]				
9: Lin SL, Xu D, Li A, Nussinov R.	Related Articles, Links			
Electrostatics, allostery, and activity of the yeast chor	ismate mutase.			
Proteins. 1998 Jun 1;31(4):445-52. PMID: 9626703 [PubMed - indexed for MEDLINE]				
10: Schnappauf G, Lipscomb WN, Braus GH.	Related Articles, Links			
Separation of inhibition and activation of the alloster	c yeast chorismate			
mutase.				
Proc Natl Acad Sci U S A. 1998 Mar 17;95(6):2868-73. PMID: 9501182 [PubMed - indexed for MEDLINE]				
11: Zhang S, Pohnert G, Kongsaeree P, Wilson DB, Clardy J, Ganem B.	Related Articles, Links			
Chorismate mutase-prephenate dehydratase from Esc				
catalytic and regulatory domains using genetically engineered proteins.				
J Biol Chem. 1998 Mar 13;273(11):6248-53. PMID: 9497350 [PubMed - indexed for MEDLINE]				
12: Strater N, Schnappauf G, Braus G, Lipscomb WN.	Related Articles, Links			
Mechanisms of catalysis and allosteric regulation of	yeast chorismate mutase			
from crystal structures. Structure. 1997 Nov 15;5(11):1437-52.				
PMID: 9384560 [PubMed - indexed for MEDLINE]				
12. Christophorson PI	Related Articles, Links			
13: <u>Christopherson RI.</u> Partial inactivation of chorismate mutase-prephenate				
Escherichia coli in the presence of analogues of chor				
Int J Biochem Cell Biol. 1997 Apr;29(4):589-94.				
PMID: 9363636 [PubMed - indexed for MEDLINE]				
14: Lin SL, Xu D, Li A, Rosen M, Wolfson HJ, Nussinov R.	Related Articles, Links			
Investigation of the enzymatic mechanism of the year	st chorismate mutase by			
docking a transition state analog.				
J Mol Biol. 1997 Sep 5;271(5):838-45.				
PMID: 9299331 [PubMed - indexed for MEDLINE]				
☐ 15: Schnappauf G, Strater N, Lipscomb WN, Braus GH.	Related Articles, Links			



A glutamate residue in the catalytic center of the yeast chorismate mutase restricts enzyme activity to acidic conditions.

Proc Natl Acad Sci U S A. 1997 Aug 5;94(16):8491-6.

PMID: 9238004 [PubMed - indexed for MEDLINE]

116: Eberhard J, Ehrler TT, Epple P, Felix G, Raesecke HR, Amrhein N, Schmid J.

> Cytosolic and plastidic chorismate mutase isozymes from Arabidopsis thaliana: molecular characterization and enzymatic properties.

Plant J. 1996 Nov;10(5):815-21.

PMID: 8953244 [PubMed - indexed for MEDLINE]

17: Zhang S, Kongsaeree P, Clardy J, Wilson DB, Ganem B. Related Articles, Links Site-directed mutagenesis of monofunctional chorismate mutase engineered

from the E. coli P-protein. Bioorg Med Chem. 1996 Jul;4(7):1015-20.

PMID: 8831972 [PubMed - indexed for MEDLINE]

18: Eberhard J, Bischoff M, Raesecke HR, Amrhein N, Schmid J. Related Articles, Links Isolation of a cDNA from tomato coding for an unregulated, cytosolic chorismate mutase.

Plant Mol Biol. 1996 Jul;31(4):917-22.

PMID: 8806422 [PubMed - indexed for MEDLINE]

19: Kast P, Asif-Ullah M, Jiang N, Hilvert D.

Related Articles, Links

Related Articles, Links

Exploring the active site of chorismate mutase by combinatorial mutagenesis and selection: the importance of electrostatic catalysis.

Proc Natl Acad Sci U S A. 1996 May 14;93(10):5043-8.

PMID: 8643526 [PubMed - indexed for MEDLINE]

20: Strater N, Hakansson K, Schnappauf G, Braus G, Lipscomb Related Articles, Links WN.

Crystal structure of the T state of allosteric yeast chorismate mutase and comparison with the R state.

Proc Natl Acad Sci U S A. 1996 Apr 16;93(8):3330-4.

PMID: 8622937 [PubMed - indexed for MEDLINE]

Display Summary 7	Sort 🔻	Save Text	Clip Add	Order
Show: 20 V Items 1-20 o.	f 123 Pa	ge 1 of 7 Se	lect page: 1	2 3 4 5 6 7

Write to the Help Desk NCBI | NLM | NIH Department of Health & Human Services Freedom of Information Act | Disclaimer

i686-ik-dows-gmi Oct 3/2002/17/23:10